

A Celestiall Glaſſe,  
OR  
EPHEMERIS



For the year of the Christian  $1685$ ,  
Being the Biſextile or Leap year.

Contayning the Lunations, Planetary Motions,  
Configurations, & Eccliſes for this preſent year.

Together with Rules and Tables to finde the Ri-  
ſing, Setting, and Culminating of the Planets, and  
Fixed Stars: with the time of High-water, more  
exactly then hath ordinarily bin deliver'd by others.

Alſo Rules for the Reduction of this or any other  
Ephemeris or Almanack to any meridian or place pro-  
poſed: ſin'd with Tables for that purpoſe.

With many other Things very delightfull and  
neceſſary for moſt ſorts of men.

Calculated exactly, and compoſed for the Hori-  
zon of the Ancient City of Rochefter, (whole zenith  
is diſtant from the Equator northward  $51$  degr:  
 $28$  min. and from the Meridian of S. Mi-  
chaelſ eastward  $26$  degr.  $30$  min.)

By ROBERT SLITER, Student in Astronomy,  
and Practitioner in the Mathematicks.

LONDON  
Printed for the Company of Stationers.

**Vulgar Notes and Moveable Feasts for this present  
year 1652 according to the  
Italian or English } } Gregorian or Roman  
Account. } } Account.**

	19	The Golden number	19
	29	The Epact	19
	5	The Roman Indiction	5
	9	The Circle of the Sun	9
<b>D C</b>		The Dominical Letters	<b>G F</b>
Feb. 29	9	Septuagesima Sunday	11 February
April. 18		Easter day	31 March
May 23		Ascension Sunday	5 May
May 27		Trinity Sunday	9 May
June 6		Whitsunday	11 May
June 12		Trinity Sunday	6 May
Novem. 29		Robert Sunday	Decemb.

**The Beginning and Ending of the Terms with their  
Returns, for this present year 1652.**

Quarry Term begins	Octab. Hilare: January 20
January 22, and ends	Quind. Hilare: January 27
February 12, & hath	Craft. Purif: February 3
four Returns, viz	Octab. Purif: February 9
Pascher Term begins	Quind. Pasch: May 3
May 5, and ends the	Tres Pasch. May 10
10 of May and hath	Mens. Pasch. May 17
five Returns, viz	Quinq. Pasch. May 24
	Craft. Ascen. May 28
Trinitie Term begins	Craft. Trin. June 17
June 18, and ends the	Octab. Trin. June 21
17 of July, and hath 4	Quind. Trin. June 28
Returns, viz	Tres Trin. July 5
	Tres Micha. October 20
Michaelmas Term begins	Mens. Micha. October 27
October 22, and	Craft. anim. November 3
ends November 29, and	Craft. Martin. November 12
hath 6 Returns, viz	Octab. Martin. November 18
	Quind. Martin. November 26

# A Compendious Cronology of memorall Accidents.

Brute entered this Island,	2759
the building of the City of Rome,	2404
the Sun went back ten degrees,	2340
Jerusalem destroyed by Titus.	1569
England received the Christian faith,	1475
the coming of the Danes into England,	634
the Conquest by Duke William,	586
the Conquest of Ireland by Henry 2.	415
Henry 8. won Biscagne,	108
the Massacre in France,	91
Pauls Temple fired,	91
the Earls rebellion in the North,	83
the Borsall Exchange was built,	82
the blazing Star, and frosty winter,	80
the fiery Apparition in the heavens,	78
the generall Earthquake in England,	72
the great deep snow,	72
the Camp at Tilbury in Essex,	64
Raikes executed who proclaimed himself Christ,	61
Rales won by the Earl of Essex,	56
the Gunpowder Treason, Novemb. 5.	47
the great frost,	42
the new river brought to London,	40
the Marriage of the L. by Elizabeth,	40
the blazing Star in the East,	34
the last great plague in London,	27
the last great earthquake,	26
the Duke of Buckingham murdered,	24
the great fire on London Bridge,	19
the last great snow,	12
the Parliament began, Novemb. 3.	14
Chesilme Crosse demolished, May 2.	9
the Nationall Covenant taken	9
Canterbury beheaded, Jan. 30.	8
King Charles beheaded, Jan. 30.	3
part of Holland drowned by the sea,	1

# January hath xxx. dayes.

New Moon on  $\Delta$  the 1 day, 44 minutes past 4 morn.  
 First Quarter on  $\varphi$  the 7 day, 33 min. past 8 at night.  
 Full Moon on  $\Delta$  the 15 day, at 3 in the after noon.  
 Last Quarter on  $\varphi$  the 23 day, 8 min: past 7 at night.  
 Next Moon on  $\varphi$  the 30 day, 9 min past 3 after noon.

♀MA ♀MD		● ☾	♀☾	♀♀	♂♀	♂♂
1	a	Circumcision	21	1	139	27 43 25 14 14 47
2	b	♀1 19 ♀23	22	9	253	29 24 01☾ 20 13 55
3	c	♂♂ 7	23	11	4 10	1☾ 5 25 12 13 19
4	d	♀1 21 ♂1 59	24	1	5 25	2 46 10☾ 13 13 7
5	e	△h♂♂⊙h♂	25	13	6 40	4 2☾ 24 46 13 16
6	f	Epiphany	26	14	7 56	6 9 8☾ 53 13 47
7	g	□h♂△4	27	15	9 11	7 51 21 45 14 27
8	a	♀1 25 ♀1 51	28	17	10 26	9 34 6☾ 9 15 8
9	b	*h♂△⊙	29	18	11 41	11 17 19 17 15 44
10	c	□♂♂6△♀	30	19	12 57	13 1 2☾ 9 16 7
11	d	♀1 27 ♂1 31	1	20	14 12	14 45 14 49 16 10
12	e	♂4♂6△♂♂	2	21	15 27	16 27 17 18 16 8
13	f	St. Mary	3	22	16 42	18 8 9☾ 39 15 44
14	g	♂h♂5	4	23	17 58	19 47 21 51 15 8
15	a	♀1 29 ♀0 55	5	24	19 13	21 24 3☾ 57 14 24
16	b	♂♂♀	6	25	20 28	22 59 15 57 13 40
17	c	△4♂♂	7	26	21 43	24 20 27 50 13 1
18	d	♂♂♂7	8	27	22 5	25 5☾ 9☾ 10 12 33
19	e	*h♂□4	9	28	24 13	27 1☾ 21 29 12 19
20	f	♂♀△⊙	10	29	25 28	28 31 3☾ 20 12 20
21	g	□h♂17	11	30	25 43	29 3 15 20 12 34
22	a	♀0 2 <sup>a</sup> SA	12	31	27 5	☾40 21 30 12 4
23	b	♀1 3 MD	13	32	29 12	1 3 9☾ 56 13 39
24	c	△h□♀♂	14	33	☾8	2 29 22 43 14 18
25	d	Con. Paul	15	34	1 43	23 15 52 5 14 54
26	e	♀1 29 ♂1 27	16	35	2 5	3 5☾ 19 37 15 18
27	f	♂4♂♂♀	17	35	4 1	4 2☾ 3☾ 48 15 26
28	g	*h♂	18	36	5 2	4 50 18 26 15 10
29	a	♀1 7 <sup>a</sup> ♀2 13	1	3	6 4	5 3 3☾ 26 14 33
30	b	S <sup>c</sup> ♂⊙	20	36	7 57	5☾ 19 38 13 3 <sup>a</sup>
31	c	♂♀	21	39	9 1	4 48 4 48 12 47



# February hath xxix. dayes.

first quater on ♀ the 8 day, 5 min. past 9 morning.  
 full moon on ♀ the 14 day, 53 min. past 9 in the morn.  
 last quater on ☉ the 22 day, at 9 in the morning.  
 New moon on ♀ the 28 day, 49 min. after midnight.

	QMD. ♀ S A.	● ♀	♀ ♀	♀ ♀	♀ ♀	♀ ♀
1	♀. 25. ♀ 2. 55	22 39	10 26	4 26	19 0	11 58
2	♂urif. ♀ary	23 40	11 41	3 54	3V 49	11 36
3	♀D. * ☉	24 48	12 56	3 11	18 16	11 37
4	♂D. * ♀D.	25 41	14 10	2 19	28 18	11 58
5	♀. 22. ♀ 3. 35	26 41	15 23	1 18	15 51	12 33
6	♀D. ♀orien.	27 41	16 40	20 33	29 3	13 13
7	♀D. 12. ☉ ♀	28 41	17 51	8 54	11 52	13 50
8	♂D. ☐ ♂D.	29 43	19 9	27 36	24 25	14 21
9	♀. 17. ♀ 3. 38	0 17	20 24	16 21	65 44	14 38
10	♂D. △ ☉D.	1 41	21 38	25 11	18 53	14 40
11	♀ 3. 23. S. D.	2 44	22 5	24 7	0 55	14 28
12	♂D. 19.	3 44	24 8	23 9	12 52	14 24
13	♀. 12. ♀ 3. 3.	4 43	25 22	22 17	24 45	13 24
14	Valentine.	5 45	26 37	21 33	6 37	12 41
15	Septuages.	6 45	27 51	20 56	18 29	11 51
16	♀D. D. 19	7 45	29 5	20 26	0 23	11 17
17	♂D. △ ♀D.	8 45	0 V	20 3	12 23	10 59
18	♀. 3. ♀ 1. 59.	9 46	1 34	19 49	24 26	0 45
19	* ♀D. △ ☉D.	10 46	2 48	19 41	0 41	10 44
20	♂D. ♀D.	11 46	4 2	19 40	19 16	11 1
21	♀. 57. ♀ 1. 19	12 46	5 16	19 D	22 4	14 0
22	Sexages.	13 46	6 30	19 56	15 12	12 22
23	♂D. ☐ ♂D.	14 46	7 43	20 12	28 43	13 2
24	♂D. * ☉	15 46	8 59	20 33	12 41	13 31
25	Matthias.	16 46	10 13	20 58	27 7	13 59
26	♀. 47. ♀ 0. 14	17 45	11 27	21 28	11 54	13 41
27	* ♀D. 19.	18 45	12 41	22 3	26 56	13 6
28	♂D. 16.	19 45	13 55	22 4	12 5	12 22
29	♂D. 16. Sun	20 45	15 8	23 27	27 12	11 38

# March hath xxxi. dayes.

A first Quarter on  $\frac{1}{2}$  the 6 day, 42 min. past 11 at night.  
 Full moon on  $\odot$  the 15 day, 48 min. past 3 morn.  
 Last quarter on  $\bigcirc$  the 22 day, 46 min. past 6 at night.  
 New moon on  $\bigcirc$  the 29 day, 11 min. past 10 morn.

Q M D. S. A.		☉	☿	♀	♂	♂	♂
1	☐ h. d. 6♂ d	21 44	16 21	14 15 12	7 10 41		
2	☐ d. 35. ♀. 41	22 44	17 36	25 6 26	44 10 10		
3	* h. d. 19.	23 44	18 50	26 0 10	57 10 6		
4	* ☉ d. ☐ ♀ d	24 43	20 4	26 57 24	43 10 12		
5	* ☉ d. ♀ 1. 9	25 43	21 18	27 56 8	11 10 39		
6	* ☉ d. ♀ 24	26 42	22 32	28 57 20	57 11 15		
7	☐ h. d. 17	17 42	23 46	0 36 31	11 51		
8	☐ h. d. ☐ ♂ d	28 41	24 59	1 6 15	47 12 27		
9	☐ d. 71. 41	29 41	26 13	2 15 27	51 12 52		
10	☐ h. d. 17	0 41	27 27	3 26 9	47 13 6		
11	☐ d. 90. 11	1 41	28 40	4 39 21	37 13 4		
12	☐ h. d. ☐ ♀ d	2 39	29 54	5 54 37	26 12 49		
13	* h. d. 17	3 38	1 8	7 11 15	19 12 18		
14	☐ d. eclipsed	4 37	2 20	8 30 27	15 11 39		
15	☐ d. S. A.	5 37	3 3	9 51 9	17 10 54		
16	☐ h. d. ☐ ♂ d	6 36	4 40	11 13 21	28 10 10		
17	☐ d. 19. * h. d	7 35	6 0	12 37 37	50 9 33		
18	☐ h. d. 90. 9	8 34	7 13	14 2 16	20 9 15		
19	☐ d. 72. 74	9 33	8 26	15 29 28	59 9 10		
20	☐ d. 90. 15	10 32	9 35	16 57 12	2 9 24		
21	☐ d. 72. 27	11 31	0 52	18 27 25	17 9 53		
22	☐ h. d. ☐ ♀ d	12 30	12 5	19 59 8	47 10 31		
23	☐ h. d. ☐ ♂ d	13 29	13 18	21 34 22	35 11 13		
24	* ☉ d. ☐ ♀ d	14 28	14 31	23 9 6	43 11 51		
25	☐ h. d. 90. 24	15 26	15 4	24 46 21	9 12 14		
26	* h. d. 90. 33	16 25	16 56	26 24 5	50 12 17		
27	☐ h. d. 72. 24	17 24	18 9	28 4 20	39 11 56		
28	☐ h. d. 3	18 23	19 21	29 45 5	30 11 14		
29	☐ d. eclipsed	19 21	20 34	1 7 20	17 10 29		
30	☐ h. d. ☐ ♂ d	20 20	21 46	3 13 4	50 9 27		
31	* h. d. ☐ ♀ d	21 19	22 5	4 58 19	5 8 47		

**Aprill hath xxx. dayes.**

First Quarter on ☿ the 5 day, 54 min. past 3 after noon  
Full Moon on ☿ the 13 day, 12 min. past 7 at night.  
Last quarter on ☿ the 21 day, 40 min. past 1 morning  
New Moon on ☿ the 27 day, 50 min. past 1 at night.

QSA. M.D.		●	△	♀	♂	♀	V	♂	♀	♂	♀
1	h. 2. 1	2	17	4	16	6	3	5	6	0	28
2	* 2. 50. 54	23	1	2	2	8	34	16	21	8	20
3	* 2. 57.	24	14	26	35	0	25	29	23	8	47
4	h. 2. 58.	25	13	27	4	12	16	25	0	9	7
5	* 2. 51, 2	26	11	28	59	14	13	24	7	9	53
6	□ 2. 51. 4	27	10	6	5	16	11	0	10	29	
7	△ 2. 51. 4	28	8	1	2	18	11	18	13	11	1
8	□ 2. 51. 4	29	7	2	35	20	3	0	11	22	
9	* 2. 51. 4	0	m	3	47	32	16	11	49	11	33
10	♀ 2. 51. 4	1	3	4	59	24	25	65	41	11	27
11	♂ 2. 51. 4	2	1	6	14	20	3	1	10	11	8
12	□ 2. 51. 4	3	0	7	23	28	42	17	53	10	34
13	♂ 2. 51. 4	3	58	8	34	0	5	0	m	7	50
14	△ 2. 51. 4	4	56	9	46	2	59	12	56	8	19
15	♂ 2. 51. 4	5	54	10	5	5	6	25	49	7	48
16	♀ 2. 51. 4	6	52	12	9	7	14	8	56	7	36
17	♂ 2. 51. 4	7	50	13	20	9	21	22	5	7	36
18	♂ 2. 51. 4	8	48	14	31	11	28	57	4	44	
19	♂ 2. 51. 4	9	46	15	42	13	35	19	15	8	18
20	♀ 2. 51. 4	0	44	16	53	15	4	3	13	8	47
21	□ 2. 51. 4	1	42	18	4	17	46	17	11	9	28
22	△ 2. 51. 4	2	4	19	14	19	51	1	2	6	8
23	♂ 2. 51. 4	3	38	20	25	21	55	15	2	0	36
24	♀ 2. 51. 4	4	36	21	33	23	55	15	2	0	46
25	♂ 2. 51. 4	5	34	22	45	25	59	14	2	0	33
26	♀ 2. 51. 4	6	32	23	55	27	59	18	5	10	57
27	△ 2. 51. 4	7	30	25	5	29	58	13	7	9	8
28	♂ 2. 51. 4	8	27	26	15	1	57	11	8	15	
29	♀ 2. 51. 4	9	25	27	25	3	57	10	5	7	30
30	♂ 2. 51. 4	0	23	28	35	5	49	24	2	7	1

# May hath xxxi. dayes.

First quarter on ☿ the 5 day, 23 min. past 9 morning.  
 Full moon on ♃ the 13 day, 4 min. past 8 morning.  
 Last quarter on ♃ the 20 day, 52 min. past 6 morning.  
 New moon on ♃ the 27 day, at 9 in the morning.

♀ S A. ♀ S A.		● m	♀ II	♀ II	☾ ☿	♂ ♀	
1	b	♂ h), *♂	21 0	44	7 41	7 23	6 54
2	c	♂ h), *♂	22 18	0 5	9 34	2 0	7 0
3	d	♀ 2, 7, ♀ 2, 8	23 16	2 3	11 21	4 21	7 22
4	e	*♂ 8,	24 14	3 12	13 6	16 25	7 53
5	f	☐ ♀ 2, 15	25 11	4 21	14 45	23 17	8 28
6	g	△ ♀ 2, 12	26 9	5 31	16 22	19 4	9 2
7	a	*♂ h), ♀ 2, 12	27 6	6 40	17 56	19 51	9 33
8	b	☐ ♀ 2, 12	28 4	7 50	19 29	1 42	9 53
9	c	☐ h), △ ♀ 2, 12	29 1	8 59	20 51	13 44	9 58
10	d	♀ 2, 15 ♀ 2, 12	19 59	10 8	22 11	16 2	9 48
11	e	*♂ h), ♂ ♀ 2, 1	0 2	11 17	23 26	8 m 38	9 22
12	f	△ ♀ 2, 1	1 54	12 26	24 39	11 32	8 42
13	g	♂ ♀ 2, 1	2 51	13 34	25 49	4 246	7 53
14	a	♂ ♀ 2, 17	3 49	14 43	26 56	18 17	7 4
15	b	♂ h), ♀ 1, 48	4 46	15 51	28 0	2 v 4	6 25
16	c	♂ h), ♂ ♀ 2, 1	5 43	16 59	29 0	15 59	6 5
17	d	△ ♂ 2, 1	6 41	18 6	29 56	0 0	6 7
18	e	♀ 2, 18 ♀ 1, 24	7 38	19 14	0 6	14 3	6 27
19	f	Dunston.	8 36	20 21	1 32	28 7	7 22
20	g	☐ ♂ 2, 1	9 33	21 18	2 14	12 9	7 46
21	a	△ h), ♂ 2, 1	10 30	22 35	3 5	26 11	8 27
22	b	☐ h), *♂	11 28	23 43	3 2	10 v 12	8 59
23	c	Bogaton.	12 25	24 49	3 56	24 11	9 13
24	d	♂ h), ♀ 2, 16	13 22	25 56	4 21	8 9	9 5
25	e	*♂ h), ♀ 0, 2	14 19	27 3	4 42	22 1	8 38
26	f	♂ h), ♀ 0, 14	15 17	28 9	4 58	5 II 44	7 59
27	g	♂ h), ♀ 2, 14	16 14	29 15	5 9	19 14	7 4
28	a	♂ h), ♂ ♀ 2, 1	17 11	0 9	5 16	26 27	6 17
29	b	♂ h), ♀ 1, 2	18 8	1 16	5 20	15 21	5 41
30	c	♂ h), ♀ 2, 1	19 5	2 31	5 K.	27 59	5 22
31	d	*♂ h), *♂	20 3	3 36	5 12	10 17	5 18

# June hath xxx. dayes.

first quarter on ♀ the 4 day 13 min. past 3 morning.

full moon on ♀ the 11 day 9 min. past 6 at night.

last quarter on ♀ the 18 day, 7 min. past noon.

New moon on ♀ the 25 day, 39 min. past 5 afternoon.

♀	D.	♀ M. A.	☉	☽	♀	☽	☾	☽	☾	☽		
1	e	♀ 2.7. ♀ I. 50	21	c	4 41	5	c	22	21	5 31		
2	f	△ ♀). * ♀)	21	5	5 45	4 45	4 m	12		5 36		
3	a	□ ♂ D. ♀ 2. 25	22	54	0 50	4 21	15	58		9 28		
4	a	* ♀). ) 1 ♀	23	5	7 54	4	4	47	43	7 3		
5	b	□ ♀). ♀ 2. I	24	48	8 50	3 35	9	34		7 37		
6	c	White Sunday	25	45	10	1	3 1	31	36	8 5		
7	d	* ♀). □ ♀)	26	43	11	4	2 40	3 m	56	8 21		
8	e	△ ♀ D. ♀ 3. 39	27	40	12	7	2	6	16	37	8 23	
9	f	♀ I. 52.	28	37	13	10	1	30	29	41	8 6	
10	g	Earth in v	29	34	14	13	0	5	13	7 11	7 30	
11	a	♂ ♀). ♂ ♂)	0	6	15	15	0	15	27	1	6 42	
12	b	♀ I. 43 ♀ 4 22	1	21	16	18	29	11	11	10	5 46	
13	c	Trinit. fund.	2	25	17	20	29	6	25	33	5 3	
14	d	♂ ♂ ♀. ♂ ♀)	3	22	18	22	28	35	10	1	4 37	
15	e	△) ♂ ♂ ♀	4	20	19	24	18	c	24	28	4 31	
16	f	* ♀). ♀ 4. 46	5	17	20	25	27	39	8	47	4 48	
17	g	△ ♀). □ ♂ D	6	1	21	27	27	14	22	59	5 22	
18	a	♀ ♀ ♂. □ ♀ D	7	11	22	28	26	52	7	v	1	6 4
19	b	□ ♀). * ♂)	8	1	23	29	26	37	20	53	6 46	
20	c	△ ♀ D. * ♂)	9	5	24	30	26	18	4	♂	35	7 20
21	d	* ♀). □ ♀)	10	2	25	30	26	6	18	10	7 38	
22	e	♀ I. 6 ♀ 4. 31	10	59	26	29	26	0	1	11	37	7 37
23	f	♂ ♀). ♂ ♀)	11	57	27	28	26	D	14	54	7 17	
24	g	John Bapt.	12	54	28	27	26	14	28	2	6 21	
25	a	♀ I. 52 ♀ 4. 12	13	51	9	25	26	28	10	59	5 55	
26	b	♂ ♀). ♀ ♀ ♂	14	41	0	v	26	45	23	41	5 7	
27	c	♀ I. 41 ♀ 3. 53	15	45	1	22	27	c	1	8	4 26	
28	d	* ♀).	16	42	2	20	27	30	18	20	3 57	
29	e	Peter & Paul	17	39	3	18	27	58	0	11	3 45	
30	f	* ♂ D. △ ♀)	8	4	4	15	28	32	12	1	3 47	

# July hath xxxi. dayes.

First Quarter on h the 3 day. 16 min. past 8 at night.  
 Full Moone on ☉ the 11 day. 35 min. past 2 morning.  
 Last quarter on h the 17 day. 9 min. past 6 at night.  
 New moon on ☉ the 25 day. 8 min. past 7 morning.

☿ S D. ♄ M D.		☊ W	♋ M	♌ M	♍ M	♎ M	♏ M	♐ M	♑ M
1	a	*hD. □♀D	15 33	5 12	29 1	-3 57	4 3		
2	b	□hD. ♄♂D	30 31	6 8	0 5	5 44	4 30		
3	c	♀. ♄. ♄. ♄. ♄.	21 28	7 3	0 34	17 3	5 3		
4	d	□hD. *♂D	22 25	7 58	1 52	29 3	5 40		
5	e	*♀D. △♀D.	23 22	8 51	2 56	11 7	6 14		
6	f	△hD. △♂D	24 19	9 46	4 6	4 3	6 30		
7	g	♀♂D. □♀D	25 16	0 39	5 1	7 1	6 40		
8	h	♀. ♄. M ♄. ♄.	26 14	11 32	6 41	1 14	6 42		
9	i	♂♂D. ♄♂D	17 11	12 24	8 4	5 1	6 14		
10	j	♂hD. △♀D	28 8	13 15	9 35	19 39	5 28		
11	k	♀♄. ♄. ♄. ♄.	29 5	14 5	11 7	4 2	4 34		
12	l	△♀D.	0 33	4 55	12 4	19 12	3 43		
13	m	*♂D. ♄♀D	1 0	15 44	14 2	1 8	3 8		
14	n	♂hD. △hD	1 57	16 32	6 4	18 47	2 57		
15	o	with. △♂D	2 54	17 20	17 49	3 7	3 10		
16	p	♀♄. □♂D	3 52	18 7	19 37	17 3	3 40		
17	q	□hD. △♂D	4 49	18 53	21 28	18 27	4 21		
18	r	♀. ♄. ♄. ♄. ♄.	5 46	19 49	23 27	15 6	5 3		
19	s	Dogda. begin	6 44	20 24	25 16	18 29	5 38		
20	t	□♀D. ♄. ♄.	7 41	21 8	27 12	11 39	6 0		
21	u	♂♂D. ♄. ♄.	8 39	21 50	29 9	24 26	6 6		
22	v	♀. ♄. ♄. ♄.	9 36	22 31	1 0	7 52	5 54		
23	w	♂hD. ♄♂D	10 33	23 11	3 6	0 0	5 16		
24	x	♂hD. ♄♂D	11 31	23 49	5 6	1 12	4 46		
25	y	James spe.	12 28	24 26	7 7	14 39	3 57		
26	z	△♂D.	13 26	25 2	9 10	26 44	3 16		
27	a	♀. ♄. ♄. ♄. ♄.	14 23	25 38	11 14	8 41	2 40		
28	b	*♂D. ♄♀D	15 21	26 13	13 19	20 30	2 18		
29	c	♄♄. *hD	16 18	26 47	15 24	2 17	2 9		
30	d	*♄D. ♄. ♄.	17 16	27 19	17 30	14 3	2 15		
31	e	□hD. □♂D	8 14	27 40	19 35	5 5	2 0		



August hath xxxi. dayes.

first quarter on D the 2 day, 35 min. past 11 at noon.

first quarter on the 2 day, 35 min. past 11 in the morn.  
full moon on the 9 day, 24 min. past 10 in the morn.  
first quarter on the 16 day, 15 min. past 2 in the morn.

Full moon on the 9 day, 24 min past 10 in the morn.  
 Last quarter on the 16 day, 15 min past 2 in the morn.  
 First quarter on the 22 day, 45 min past 10 at night.

Full moon on the 16 day, 15 min past 10 at night  
 Last quarter on the 23 day, 45 min past 10 at night

As the moon on the 23 day 45 min 14 s											
Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.	Q M A L S D.
1	63.56.21.45	19	11	28	17	21	39	7	57	3	6
2	△ 63.56.21.45	20	9	28	46	23	42	20	11	3	43
3	△ 63.56.21.45	21	6	29	9	25	43	2	253	4	20
4	△ 63.56.21.45	22	4	29	33	27	42	15	50	4	53
5	△ 63.56.21.45	23	2	29	55	29	39	29	2	5	13
6	△ 63.56.21.45	24	0	0	0	1	0	13	20	5	14
7	△ 63.56.21.45	24	57	0	2	3	29	27	52	4	55
8	△ 63.56.21.45	25	55	0	46	5	21	12	4	4	13
9	△ 63.56.21.45	26	53	1	2	7	11	27	42	3	19
10	△ 63.56.21.45	27	51	1	14	9	0	12	49	2	24
11	△ 63.56.21.45	28	49	1	2	10	47	27	53	1	42
12	△ 63.56.21.45	29	46	1	3	12	32	12	4	1	24
13	△ 63.56.21.45	30	46	1	40	14	16	27	15	1	31
14	△ 63.56.21.45	31	42	1	44	15	59	11	25	1	57
15	△ 63.56.21.45	32	40	1	43	17	40	25	13	2	35
16	△ 63.56.21.45	33	38	1	K	19	21	8	35	3	15
17	△ 63.56.21.45	34	36	1	40	21	0	21	40	3	53
18	△ 63.56.21.45	35	34	1	34	22	38	4	26	4	20
19	△ 63.56.21.45	36	32	1	25	24	15	16	57	4	33
20	△ 63.56.21.45	37	30	1	13	25	50	29	18	4	29
21	△ 63.56.21.45	38	29	0	58	27	24	11	29	4	10
22	△ 63.56.21.45	39	27	0	4	28	57	23	31	3	37
23	△ 63.56.21.45	40	25	0	21	0	0	5	27	2	56
24	△ 63.56.21.45	41	25	0	C	2	0	17	19	2	11
25	△ 63.56.21.45	42	2	9	0	3	29	19	7	1	30
26	△ 63.56.21.45	43	2	29	13	4	57	10	56	0	57
27	△ 63.56.21.45	44	18	28	41	6	24	22	48	0	39
28	△ 63.56.21.45	45	16	28	21	7	50	4	45	0	35
29	△ 63.56.21.45	46	15	27	51	9	15	6	51	1	48
30	△ 63.56.21.45	47	13	27	20	10	39	38	51	1	12
31	△ 63.56.21.45	48	12	26	4	12	1	11	250	1	37

# September hath xxx. dayes.

First Quarter on ☿ the 1 day, 27 min. before morning.  
 Full Moon on ☿ the 7 day, 44 min. past 5 at night.  
 Last quarter on ☿ the 14 day, 18 min. past 1 afternoon.  
 New Moon on ☿ the 22 day, 53 min. past 3 afternoon.  
 First quar. on ♀ the 30 day, 47 min. past 11 before noon.

	☿	M.A.	♀	M.A.	☿	☿	♀	☿	♀	☿	♀	☿	♀
1	♂	♂	♂	♂	19	10	26	10	13	20	24	48	227
2	♂	♂	♂	♂	20	9	25	33	14	39	8	11	33
3	♂	♂	♂	♂	21	7	24	55	15	57	12	0	332
4	♂	♂	♂	♂	22	6	24	16	17	13	6	17	343
5	♂	♂	♂	♂	23	5	23	37	18	21	0	58	350
6	♂	♂	♂	♂	24	3	23	59	19	41	5	56	250
7	♂	♂	♂	♂	25	2	22	22	20	52	21	6	24
8	♂	♂	♂	♂	26	1	22	45	22	1	6	17	17
9	♂	♂	♂	♂	26	5	21	9	23	1	21	19	020
10	♂	♂	♂	♂	27	58	21	34	24	13	6	8	29
11	♂	♂	♂	♂	28	59	20	59	25	16	20	31	2952
12	♂	♂	♂	♂	29	56	19	25	26	16	4	11	0
13	♂	♂	♂	♂	0	5	19	53	27	14	18	3	044
14	♂	♂	♂	♂	1	54	18	23	28	9	10	10	123
15	♂	♂	♂	♂	2	53	18	55	29	1	13	54	21
16	♂	♂	♂	♂	3	52	17	20	29	50	26	20	232
17	♂	♂	♂	♂	4	51	17	5	0	11	8	32	252
18	♂	♂	♂	♂	5	50	17	42	1	15	20	32	259
19	♂	♂	♂	♂	6	49	16	28	1	51	2	22	250
20	♂	♂	♂	♂	7	48	16	1	2	23	14	15	226
21	♂	♂	♂	♂	8	47	16	45	2	51	26	14	151
22	♂	♂	♂	♂	9	47	15	31	3	13	7	54	18
23	♂	♂	♂	♂	10	46	15	24	3	28	19	46	024
24	♂	♂	♂	♂	11	45	15	14	3	39	1	46	29
25	♂	♂	♂	♂	12	45	15	11	3	43	13	56	2915
26	♂	♂	♂	♂	13	44	15	0	3	5	26	14	292
27	♂	♂	♂	♂	14	43	15	13	3	22	8	45	294
28	♂	♂	♂	♂	15	43	15	17	2	58	21	27	2923
29	♂	♂	♂	♂	16	42	15	23	2	25	4	26	2955
30	♂	♂	♂	♂	42	15	31		1	40	17	42	0

October hath xxxi. dayes.

full moon on  $\frac{1}{4}$  the 7 day, 29 min. past 3 morning  
 half quarter on  $\frac{1}{4}$  the 14 day, 23 min. past 4 morning.  
 new moon on  $\frac{1}{4}$  the 22 day, 32 min. past 9 morning  
 first quarter on  $\frac{1}{2}$  the 29 day, 18 min. past 10 at night.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
	♂hD. ♀4.17	△○D. ♀2.30	*♂D. ♂♂D.	♂♀D. ♀3.41	△hD. □♂D.	♂♀D. ♀1.18	□hD. □♂D.	△♀D. ♀2.52	*hD. ♀0.16	□♂D. □♂D.	♂♂D. ♀0.22S	*♂D. *♀D.	♀1.54. □♀D.	♂hD. ♀1.5	*♀D. ♀1.34	△♂D. *♂D.	♂♂D. ♀1.43	Luce Ebang	*hD. □♂D.	♂♀D. ♀0.49	*♂D. ♀2.9	□hD. *♂D.	*♀D. ♀0.21	△hD. ♀2.13	□hD. □♂D.	♂♂D. □♀D.	△♂D. *♂D.	Sim. 8 3008	♂hD. ♀1.19	△♀D. ♀1.57	*♂D. △○D.
	18 41	19 41	20 41	21 40	22 40	23 40	24 40	25 39	26 39	27 39	28 39	29 39	0 8	1 39	2 3	3 39	4 39	5 40	6 40	7 40	8 40	9 40	10 41	11 41	12 42	13 42	14 42	15 43	16 43	17 44	18 45
	15 41	15 53	16 8	16 24	16 42	17 2	17 24	17 48	18 14	18 41	19 9	19 9	20 10	20 42	21 14	21 57	22 34	23 8	23 47	24 28	25 10	25 53	26 33	27 25	28 15	29 0	0 2	1 27	2 18	3 10	
	0 46	29 22	18 41	27 28	26 8	24 45	23 25	22 16	21 3	20 5	19 15	18 3	18 11	17 54	17 46	17 D	17 16	18 14	18 40	19 15	20 0	20 51	21 49	22 53	23 18	26 34	27 55	29 21	0 m	2 21	
	1 43	15 25	29 48	4 31	29 27	14 V	27 31	14 8	13 53	13 11	26 44	9 5	22 45	5 0	17 10	15	11 12	22 10	4 37	16 30	28 31	10 m 4	7	5 2 43	18 3	14 4	28 1	11 35	25 26	1 3	
	1 15	1 50	2 8	2 5	1 38	0 57	19 8	29 4	28 29	28 17	28 20	28 51	19 25	0 7	0 37	1 4	1 21	1 2	1 10	0 45	0 6	19 36	28 36	27 58	27 34	27 27	27 39	28 5	28 44	29 26	0 7

# November hath xxx. dayes.

Full moon on ♀ the 5 day, 5 min. past 2 afternoone.  
 Last quarter on ♀ the 12 day, 39 min. past 11 at night.  
 New moon on ☉ the 21 day, 9 min. past 2 morning.  
 First quarter on ☉ the 28 day, 4 min. past 6 morning.

☿ ♀ ♀ ♀ ♀		☉	♂	♀	♂	♀	♂	♀	♂
1	d	All Saints.	19	45	4	3	3	50	0 30
2	e	△ h d. □ ♀	20	40	4	56	5	29	8 v 29 0 36
3	f	♀ i. o. ♀ i.	21	46	5	50	7	0	23 9 0 18
4	g	□ h d. △ ♀	22	47	6	44	8	30	7 53 29 *
5	a	Sound. Crea	23	48	7	38	9	50	22 32 28 46
6	b	* h d. △ ♀	24	49	8	33	11	30	6 158 27 5
7	c	□ ♀ d. ♀ i.	25	49	9	28	13	3	21 6 27 11
8	d	♀ i. d. □ ♀	26	50	10	24	14	38	4 49 26 48
9	e	△ ☉ d. ♀ i.	27	51	11	21	16	15	8 6 26 44
10	f	* ♀ d. * h ♀	28	52	12	19	17	53	0 57 16 3
11	g	♂ h d. ♀ o.	29	53	13	17	19	32	13 25 27 25
12	a	♀ i. 46. * ♀	0	II	14	16	21	9	25 34 27 58
13	b	△ ♀ d. ♀ o.	28	1 54	15	15	22	45	7 22 28 34
14	c	* ♀ d. ☉	2 55	16	15	24	20	9	17 19 7
15	d	♂ ♀ d. * ☉	3 56	17	15	25	53	1 12	1 19 32
16	e	* h d. □ ♀	4 57	18	16	27	25	12	49 19 4
17	f	♀ 2. 4 ♀ d	5 58	19	17	28	58	24	44 29 48
18	g	□ h d. * ♀	6 59	20	18	0	2	6 m	5 127 3
19	a	♀ o. 13. M.	8 0	21	19	2	7	19	14 18 59
20	b	△ h d. * ♀	9 1	22	21	3	42	1	254 18 20
21	c	* ♀ d. ♀ d	10 3	23	23	5	17	14	49 27 32
22	d	□ ♀ d. ♀ 2. 21	11 4	24	25	6	52	28	1 26 46
23	e	♂ ♀ d. △ h ☉	12 5	25	28	8	27	11 v	24 26 12
24	f	□ ♀ d. ♀ o. 45	13 6	26	31	10	2	24	59 25 53
25	g	♂ h d. △ ♀	14 7	27	35	11	35	8 m	39 25 5
26	a	△ ♀ d. △ h ♀	15 8	28	39	13	9	22	26 26 19
27	b	* ♀ d. * h ♂	16 9	29	44	14	42	6 *	18 26 53
28	c	♂ ♀ d. ♀ i. 33	17 11	0 m	16	15	20	15	27 30
29	d	△ h d. □ ♀	18 12	1 54	17	49	4 v	10	28 19
30	e	Andredo Sp.	19 13	2 59	19	24	18	29	28 50

# December hath xxxi. dayes.

Full moon on ☉ the 3 day, 30 min. past 2 in the morn.  
 Last quarter on ☉ the 1. day, 23 min. past 9 at night.  
 New moon on ☿ the 20 day, 7 min. past 5 at night.  
 First quarter on ☿ the 27 day, 32 min. past 2 afternoon.

☿	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
1	☿	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒
2	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
3	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
4	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
5	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
6	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
7	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
8	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
9	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
10	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
11	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
12	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
13	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
14	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
15	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
16	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
17	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
18	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
19	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
20	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
21	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
22	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
23	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
24	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
25	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
26	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
27	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
28	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
29	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
30	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓
31	♈	♉	♊	♋	♌	♍	♎	♏	♐	♑	♒	♓

# The Motions of the 3 Superiors, for every 5 day.

Month	Day	h		L		S	
		☿	♄	♂	♂	♂	♂
January	5 25	R 37° 13'	39 D° 58' 15"	1 X 91' 1"			
	10 25	110° 14'	69° 10' 15"	5 D° 58' 57"			
	15 24	47° 14'	1° 14' 0"	14° 9' 00"			
	20 24	22° 14'	2° 17' 0"	14° 22' 52° 51'			
	25 23	59° 15'	3° 17' 0"	14° 16' 45° 48'			
February	30 23	38° 16'	4° 16' 0"	13° 20' 37° 44'			
	5 23	14° 16'	5° 23° 13' 25'	14° 40' 40'			
	10 22	58° 17'	6° 17° 12' 29'	4° 37'			
	15 22	43° 17'	7° 8° 12' 2° 54° 33'				
	20 22	32° 18'	7° 56° 12' 6° 33° 29'				
March	25 22	22° 18'	8° 48° 11' 10° 30° 25'				
	29 22	15° 18'	9° 15° 11' 13° 30° 22'				
	5 22	9° 18' 9'	53° 10' 17'	15° 19'			
	10 22	7° 19' 10'	122° 10' 20'	58° 15'			
	15 22	8° 19' 11'	2° 10' 14'	40° 12'			
April	20 22	11° 20' 11'	29° 9' 28'	20° 9'			
	25 22	17° 20' 12'	52° 9' 2° 0° 5'				
	30 22	26° 20' 13'	12° 8' 5' 40° 2'				
	5 22	40° 20' 12'	30° 8' 10'	10° 51'			
	10 22	54° 21' 13'	040° 7' 15'	38° 5'			
May	15 23	100° 21' 12'	145° 17' 11'	11° 10'			
	20 23	129° 21' 13'	150° 16' 18'	46° 10'			
	25 23	49° 22' 14'	45° 16' 24'	17° 10'			
	30 24	23° 23' 15'	33° 17' 27'	47° 18'			
	5 24	38° 23' 16'	20° 17' 30'	11° 12'			
June	10 24	5° 23' 17'	30° 17' 34'	4° 10'			
	15 25	33° 23' 18'	41° 16' 37'	3° 10'			
	20 26	3° 23' 19'	100° 15' 40'	3° 10'			
	25 26	33° 24' 20'	40° 15' 43'	4° 10'			
	30 27	6° 24' 21'	17° 15' 46'	3° 10'			
	5 27	46° 24' 22'	3° 15' 49'	33° 10'			
	10 28	21° 25' 23'	10° 16' 52'	55° 10'			
	15 28	56° 25' 24'	35° 17' 55'	15° 10'			
	20 29	33° 26' 25'	46° 18' 58'	35° 10'			
	25 29	10° 26' 26'	8° 19' 61'	54° 10'			
	30 0	40° 26' 27'	32° 20' 64'	13° 10'			





To reduce this ( or any other ) Ephemeris or  
Almanack to any Meridian or  
place proposed,

**F**irst you must understand, that all the Lunations, As-  
pects, and Planetary motions in any Ephemeris or  
Almanack, are calculated for some one Meridian (as  
in this for the Meridian of the City of Rochester,) you  
are likewise to understand, that the Earth by the diurnall  
motion from West to East, causeth any Meridian thereon  
in the East to come sooner to the Sun, then another which  
is more Westerly; so that when it is 12. of the Clock (or  
any other hour) at the Eastermost, it shall not be so much  
at the other, by so much as is the difference of Longitude  
in time: for Example, the difference of Longitude in time,  
between Rochester and London is 3. min. (Rochester lying so  
much to the Eastward of Lon.) I say therefore, that  
when it is 12. of the clock (or any other hour) at Roches-  
ter, it shall not be so much at London by 3. minutes (for  
in common reason the Earth must have an intervall of time  
to move the distance between Rochester and London, to  
the same point of the Heavens) therefore if the Moon  
should change at 12. of the Clock, (or any other hour) any  
day at Rochester, she would change 3. minutes before the  
same hour at London, for though she change at the same  
moment of time at London that she doth at Rochester, yet  
it is not the same hour of the day, at that moment, at Lon-  
don, as it is at Rochester; therefore to reduce the Lunaria-  
ons or any other Aspect, to any other Meridian or place  
proposed,

## A Prognostication.

proposed, take the difference of Longitude between the place proposed, and that for which the Ephemeris or Almanack was calculated (by deducting the lesser Longitude out of the greater) which difference of Longitude convert into time (by allowing 15. degrees to one hour, and 4. minutes to every degree) which being added to the time set down in the Ephemeris, if the place proposed lie more Easterly then the place for which the Ephemeris was calculated, but subtracted if it lie to the Westward, shall give the true time of the Lunation or Aspect for the place proposed; Example, I would know what time the Moon changeth at Rome in the month of March this present year 1652. I finde by the fore-going Ephemeris that the changeth at Rochester the 29. day 11. minutes past 10. in the morning. Also I finde by the Tables of Longitude that the Longitude of Rome is 12. degrees 10. minutes, and the Longitude of Rochester 11. degrees 5. minutes, this I deduct from the former, and the remainder is 14. degrees 15. minutes. Then do I say by the Rule of proportion. If 15. degrees give one hour, what shall 14. degrees 15. minutes give? the answer is 57. minutes of an hour, this do I add to 10. hours 11. minutes (the time of the change at Rochester, because Rome lieth to the Eastward of Rochester) and the totall is 11. hours 8. minutes: the time of the change (before-noon the 29. day of March this present Year 1652.) at Rome, this may serve to discover the ignorance and to stop the mouths of some, who comparing divers Almanacks together, and finding them to differ in the time of Lunations, will condemn them of error, whereas indeed the error is in themselves, not considering the difference of Meridians, for which those Almanacks are calculated: but to facilitate and expedite the former work, I have added the former Catalogue of places, wherein finding the proposed place, take the minutes which stand against it (under the Title D. M.) and either

either add them to or deduct them from the time set down in the Ephemeris, according as the Letters A or S shall direct you, and that sum or remainder shall be the true time desired.

But now to reduce the motions of the Planets to any other Meridian, seeing that the Earth by her diurnall motion crulleth any Meridian thereon in the Hall to come sooner to the Sun, then another doth, which is Westward of that, by so much as the difference of Longitude reduced into time amounts unto; and seeing also that the Planets have a continuall motion from West to East, still encreasing their Longitude, if they be direct, and the contrary if they be Retrograde, therefore it followeth necessarily that any of the Planets shall not have the same Longitude at 12. of the Clock (and consequently at any other hour) under one of these Meridians, that they have at the same hour under the other, by so much as the said Planet moves in the space of time contained between the said Meridians, therefore having by the former instructions found the difference of time contained between the Meridians of the two places, get also the diurnall motion of the Planet (whose motion you would reduce) by deducting his place for the day proposed, from his place for the day ensuing, if the Planet be direct, and the contrary if he be Retrograde, then say by the Rule of proportion, If 24. hours give the Planets diurnall motion, what shall the space of time between the Meridians give? which number so found, must be added to the Planets place set down in the Ephemeris, if the place proposed be to the Westward of the place, for which the Ephemeris was calculated, and the Planet also direct, but subtracted if it be Retrograde, but if the place proposed be to the Eastward, and the Planet also direct, then subtract the foresaid number, but add it if the Planet be Retrograde: So have you the Planets true place for the place desired.

# A Prognostication.

A Table of the Moons Culmination or coming to the South, for every day in this present Year, 1652.

Mo. Day.	Jan.		Feb.		Mar.		Apr.		May		June		July.		Aug.		Sept.		Oct.		Nov.		Dec.	
	H	M	H	M	H	M	H	M	H	M	H	M	H	M	H	M	H	M	H	M	H	M	H	M
1	18	1	44	1	16	1	45	3	73	4	23	4	21	5	6	6	31	7	21	8	46	9	3	
2	17	2	36	2	10	2	40	4	16	5	10	5	2	5	53	7	27	8	17	9	38	9	57	
3	16	3	26	3	13	3	36	5	5	6	1	5	43	6	43	8	22	9	11	10	31	10	54	
4	10	4	16	4	5	4	28	5	31	6	32	6	25	7	36	9	33	10	5	11	26	11	53	
5	0	5	8	5	30	5	19	6	36	7	12	7	14	8	33	10	21	10	59	12	14	12	49	
6	50	5	59	5	43	6	7	7	7	7	7	7	59	9	33	11	17	11	52	12	24	12	40	
7	5	39	6	52	33	7	33	7	59	8	39	8	52	10	34	12	11	12	46	12	21	1	41	
8	25	7	44	7	27	8	33	8	40	9	29	9	48	11	23	12	11	12	46	1	20	2	38	
9	7	18	31	8	17	9	18	9	22	10	19	10	48	12	30	1	6	1	44	3	15	3	33	
10	8	7	26	9	4	9	59	10	4	11	14	11	48	12	30	2	2	2	41	4	8	4	8	
11	8	58	10	14	9	10	42	10	51	12	12	12	49	1	25	2	57	2	39	4	57	4	51	
12	9	49	11	0	10	11	34	11	39	12	1	12	49	2	17	3	51	3	39	5	43	5	31	
13	10	39	11	24	11	12	7	12	34	1	10	1	48	3	17	4	50	4	29	6	37	6	21	
14	11	30	12	24	12	56	12	7	34	2	7	2	40	4	4	5	43	5	20	7	8	7	15	
15	12	28	12	12	12	56	0	56	1	3	2	3	31	4	57	6	40	7	7	7	49	7	33	
16	12	18	1	5	12	56	1	50	2	36	3	38	4	22	5	52	7	30	7	52	8	29	8	16
17	1	3	1	29	1	18	2	45	3	26	4	30	5	12	6	46	8	18	8	34	9	11	9	5
18	1	44	2	30	2	18	2	42	4	22	5	42	6	2	7	39	9	4	9	15	9	54	9	57
19	2	24	2	12	2	5	3	36	5	16	6	30	7	57	8	33	9	49	9	50	10	39	10	17
20	3	4	3	0	3	48	3	36	6	7	7	19	7	51	9	23	10	31	10	37	11	30	11	58
21	3	47	4	51	4	12	4	30	7	0	8	11	8	44	10	11	11	13	11	10	2	21	12	44
22	4	28	5	41	5	10	5	23	8	49	9	1	9	39	10	57	11	5	12	4	1	16	1	10
23	5	13	6	40	6	35	6	17	8	30	9	58	10	42	11	40	12	34	12	31	2	12	2	15
24	6	0	7	38	7	34	7	5	9	29	10	12	11	27	12	22	1	19	1	41	3	7	3	29
25	6	50	8	37	8	31	8	57	10	21	11	47	12	8	1	3	2	3	1	34	4	2	4	19
26	7	46	9	37	9	46	10	49	11	16	12	39	0	54	1	43	3	50	2	28	4	50	5	6
27	8	45	10	35	10	44	11	4	12	23	1	28	1	56	2	26	4	4	2	24	5	44	5	55
28	9	45	11	30	11	44	12	37	13	9	2	14	2	48	3	10	4	34	3	19	6	33	6	46
29	10	47	12	35	12	4	1	33	14	6	3	58	3	59	3	56	5	28	4	13	7	23	7	56
30	11	49		0	1	38	2	27	15	5	4	41	4	40	4	43	6	24	5	7	8	18	8	30
31	12	49		1	50		9	41			4	21	5	30			7	55			9	29		

The motion of the three superiors for every fifth day.

Month.	Day	♄			♃			♂		
		♄	♃	♂	♄	♃	♂	♄	♃	♂
July.	1	25	0	27	5	17	0	12	29	0
	2	4	0	27	5	25	0	4	15	0
	3	42	0	27	4	55	0	5	10	0
	4	20	0	28	4	27	0	5	22	0
	5	58	0	28	4	2	0	6	35	0
August.	6	25	0	29	3	4	0	7	28	0
	7	21	0	29	3	20	0	7	20	0
	8	59	0	30	3	11	0	8	5	0
	9	35	0	30	3	5	0	9	8	0
	10	10	0	31	3	30	0	9	12	0
September.	11	45	0	31	3	10	0	10	15	0
	12	10	0	32	2	10	0	10	18	0
	13	58	0	32	2	28	0	11	2	0
	14	28	0	33	2	45	0	11	5	0
	15	58	0	34	2	7	0	12	28	0
October.	16	25	0	35	2	12	0	12	30	0
	17	58	0	35	2	20	0	12	42	0
	18	15	0	36	1	27	0	13	7	0
	19	27	0	37	1	35	0	13	10	0
	20	57	0	37	1	45	0	13	12	0
November.	21	27	0	38	1	5	0	14	16	0
	22	57	0	38	1	10	0	14	19	0
	23	25	0	39	0	15	0	15	23	0
	24	57	0	39	0	20	0	15	26	0
	25	25	0	40	0	25	0	16	30	0
December.	26	57	0	40	0	30	0	16	33	0
	27	12	0	41	0	35	0	17	37	0
	28	32	0	41	0	40	0	17	40	0
	29	57	0	42	0	45	0	18	44	0
	30	12	0	42	0	50	0	18	47	0



## A Prognostication.

The parts of mans body, as they are by Astrologers attributed to the 12. Zodiacall Constellations.

♈ Aries, Head and Face.	♎ Libra, Reins and Loyns.
♉ Taurus, Neck and throat.	♏ Scorpio, Secrets and bladder.
♊ Gemini, Arms, shoulders,	♐ Sagittarius, The thighs.
♋ Cancer, Breast, stomacks.	♑ Capricorn, The knees.
♌ Leo, Heart and back.	♒ Aquarius, The legges.
♍ Virgo, Bowels and belly.	♓ Pisces, The feet.

The Characters of the Sun, and seven Planets, with the head and tayl of the Dragon.

♄ Saturn.	♀ Venus.
♃ Jupiter.	☿ Mercury.
♂ Mars.	☼ Sol, The Sun.
♁ Terra, The Earth.	♁ Dragons head.
♀ Luna, The Moon.	♏ Dragons tayl.

### The Characters of the Aspects.

- ♄ Conjunction in one and the same point.
- SS Semifextile, distant one sign.
- \* Sextile, distant two whole signs.
- Q Quintile, distant two signs, 12. degrees.
- Quarrile or square, distant 3. signs.
- Tol. Tridecile distant 3 signs 18 degrees.
- Δ Trine distant 4. whole signs.
- Bq. Biquintile, distant 4. signs 24. degrees.
- ♄ Opposition, distant 6. whole signs.

Note that I do not account the Sun as one of the Planets, but the Earth in his stead, for the word Planet signifies a wandring Star, but in all probability, and by late discoveries the Earth moves, and not the Sun.



Sliter. 1.6.5.2.

**A brief description of the fore-going Ephemeris.**

**I**n the fore-going Ephemeris each page (being appropriated to a month) is divided into eight columns; the first whereof contains the daies of the month, the second the daies of the week according to the English accompt; the third contains the daies of note, which are yet in use for the computing of time; In this column is let down likewise the Planetary Aspects, with the latitude of the two inferior Planets ♀ and ☿ for some certain daies in each month, which may be found for every day, by the rule of proportion; the 4. column contains the true place of the Earth, for every day under the Meridian of Rochester, the 5. of ♀, the 6. of ☿, the 7. of ☽, and the last of ♄, for supplying the Longitudes and Latitudes, of the three superior Planets; I have made use of the two Pages following the Ephemeris, wherein I have inserted them for every 5 day of each month, which may likewise be found for every day, by the rule of proportion after this manner; I would know the true place of ♀ the 8. day of January, therefore (seeing the Planet is direct) I deduct his place for the 3. day (which is 1. degree 9. min. of ♋) and the difference is 3. deg. 56. min. then I say by the Rule of proportion, If 5 daies give 3. deg. 56. min. what shall 3. daies give? the answer is 2. deg. 24. min. *scilicet*, this I add to his place for the 7. day, and the totall is 3. deg. 31. min. ♋, the true place of ♀ for the day proposed (remember to do the contrary, if the Planet be Retrograde) by the same means may be found the Latitude for any day proposed.

A 40

# A Table of the Moons Latitude.

North.	Signe, 0	Signe, 1.	Signe, 2.	Ascend.
South.	Signe, 6.	Signe, 6.	Signe, 8.	Ascend.
Degrees.	Degrees.	Degrees.	Degrees.	Degrees.
0	0	0	2	19
1	0	5	14	22
2	0	10	27	24
3	0	15	41	27
4	0	20	54	29
5	0	25	7	31
6	0	31	19	34
7	0	36	31	36
8	0	41	42	38
9	0	46	52	40
10	0	52	2	42
11	0	57	10	43
12	1	2	18	45
13	1	7	24	46
14	1	12	29	48
15	1	17	33	49
16	1	22	36	51
17	1	27	37	52
18	1	32	38	53
19	1	37	39	54
20	1	42	40	55
21	1	47	41	56
22	1	52	42	57
23	1	57	43	58
24	2	2	44	59
25	2	6	45	0
26	2	11	46	1
27	2	16	47	2
28	2	20	48	3
29	2	25	49	4
30	2	29	50	5
				6
				7
				8
				9
				10
				11
				12
				13
				14
				15
				16
				17
				18
				19
				20
				21
				22
				23
				24
				25
				26
				27
				28
				29
				30
				31
				32
				33
				34
				35
				36
				37
				38
				39
				40
				41
				42
				43
				44
				45
				46
				47
				48
				49
				50
				51
				52
				53
				54
				55
				56
				57
				58
				59
				60
				61
				62
				63
				64
				65
				66
				67
				68
				69
				70
				71
				72
				73
				74
				75
				76
				77
				78
				79
				80
				81
				82
				83
				84
				85
				86
				87
				88
				89
				90
				91
				92
				93
				94
				95
				96
				97
				98
				99
				100

The Use of the fore-going Table.

**T**his Table is inserted to finde the Moons Latitude, because it could not conveniently be set down in the fore-going Ephemeris: Therefore to finde the D Latitude for any day in this Year. First, For the day proposed, take out of the fore-going Ephemeris, the motion both of the Moon, and also of the Dragons head, then deduct the motion of  $\Omega$  from the motion of the D, and the remainder is the squared Argument of the D Latitude, with which enter the fore-going Table, and if you finde the sign in the head of the Table, then seek the degree in the first column, but if the sign be in the foot of the Table, then seek the degree in the last: so in the common angle you shall have the Latitude desired; making a proportionall part for the minutes annexed, Example, I would know the D Latitude the 28. of March, at noon, at which time the D is in  $\gamma$  5 deg. 30 min. and  $\Omega$  in 11 deg. 14 min. of the same sign, therefore (because the Moons motion is lesse then the motion of the Dragons head) I adde 12 Signs (which is a whole circle) thereto, and the totall is 12 signs, 5 deg. 30 min. from which I deduct 11 deg. 14 min. (the motion of the Dragons head) and the remainder is 11 signs 14 deg. 16 min. the true squared argument of the D Latitude, with which I enter the Table, and because I finde the Sign in the foot, therefore I seek the degree in the last column, and right against it, over the sign 11, I finde (allowing for the part proportionall) 0 deg. 29 min. 56 seconds, the true Latitude of the D for the time proposed, the like is to be understood of all other, remembering to adde 12 Signs to the D motion when it is lesse then the motion of  $\Omega$ , and note, that the Earth never hath any Latitude, but moves alwaies with her center right under the Ecliptick.

A Catalogue of some of the most eminent Cities and Towns in and about England, shewing the temporary difference of their Meridians from Rochester, with the height of the Pole Arctique in each place.

The names of the places.	Diff. Latitude			The names of the places.	Diff. Latitude		
	Min.	D.	M.		Min.	D.	M.
Aberdeen	13	S	18	Abu.	4	S	13
Amsterdam	18	A	52	Huntington.	4	S	19
Antwerp	15	A	51	Lancaster.	14	S	18
S. Albans.	4	S	51	Leicester.	7	S	40
Barwick.	9	S	55	Lincoln.	4	S	15
Bedford	5	S	52	Lisburn.	39	S	45
Bristol.	4	S	11	London	3	S	32
Boston.	4	S	53	Man. Isle.	20	S	45
Bordeaux.	1	S	45	Newmarke.	6	S	53
Cambridge.	13	S	52	Newcastle.	9	S	54
Canterbury.	1	A	50	Nottingham.	7	S	13
Calice.	6	A	50	Norwich.	7	A	52
Carlisle.	1	S	54	Norhampton	7	S	18
Chester.	4	S	53	Oxford.	6	S	11
Carmarthen.	0	S	52	Peterborough	7	S	52
Chichester.	6	S	50	Paris.	1	S	48
Colchester.	2	A	52	Richmond.	9	S	54
Coventry.	1	S	52	Rochester.	0	S	11
Darby.	5	S	53	Rome.	77	A	45
Durmoath.	1	S	50	Rotterdam.	1	A	52
Dublin.	9	S	53	Stafford.	11	S	52
Durresne.	8	S	54	Stratford.	14	S	52
Ely.	1	S	52	Warwick.	9	S	52
Edinburgh.	5	S	55	Windsor.	8	S	51
Gloucester.	1	S	52	Worcester.	30	S	52
Granham.	7	S	52	Worcester.	12	S	52
Geneva.	5	A	45	Yentice.	47	A	45
Halsbury.	9	S	53	Urbang.	47	A	55
Harford.	4	S	51	Ternmouth.	3	A	52
Hereford.	14	S	52	Tork.	2	S	51

Note that the Letter A shews that the place lies to the Eastward of Rochester, the letter S to the Westward.

A Table for the Speedy finding the time of High Water at the principall Havens in and about England.

Q	Vinborough, Southampton, Portsmouth, Isle of Wight, Spier, Beachy, Kent, Knock	H. M.
	Rushmore, Maldon, Aberdeen, Redbank, West end of the Nore, Blacktail	0. 45
	Graveland, Downs, Ramsey, Thamer, Silly, Half tide, Blackfoss, Ramkins	1. 30
	Donner, St Andrews, Lihorn, St Lucan, Bell Isle, Hill Isle, Mart	2. 15
	London, Tinnoub, Hartlepool, White bay, Ainsfordon, Brittain, Oatfield	3. 0
	Barnwick, Elamborough head, Bridlington Bay, Foul, Flushing, Borden	3. 45
	Scarborough, Quarter side, Laurens, Manns bay, Severn, Rinsail, Kork	4. 30
	Newcastle, Humber, Falmouth, Foy, Dartmouth, Tudy, Gully, Garssey	5. 15
	Bilhamouth, Weymouth, Hull, Lin, David head, Antwerp, St Mallo	6. 0
	Bristol, Fontasse, at the Start, Londen, Milford, Bridgewater, Exeter, Lands end, Waterford, North Coast, Cape Clear	7. 45
	Portland, Peterport, Hamfior, Hagne, St Magnus, Sund, Dublin, Lambay	8. 30
	Pool, St Mellan, Carnes, Orkney, Man Isle, Fair Isle, Dunbar, Kildien, Diepe	9. 15
	Needles, Laysfo, Orford, South and North forelands, Lax, Leno	9. 45
	Tarmouth, Dover, Harwich St John de Lucs, Caer-Road, Bulloigne	10. 30
	Rye, Winchelsey, Gorend, Thames, Rhodes, Fair Isle, Calshot	11. 15

The

## A Prognostication.

### The use of the two fore-going Tables.

**T**He former of these Tables shews the time of the Moons culminating (or of her being South) for any day in this Year, which enter with the moneth in the head of the Table, and the day thereof in the first column, so in the common angle or meeting, you have the time of the Moons culmination, which found, enter the later of these Tables, and seek the place for which you desire to know the time of High Water, take out the hours and minutes which stand against it, and adde them to the time of the Moons culmination, so have you the time of High water for the day and place proposed: Example, I would know the time of the Moons culmination, and of high Water at the Start the 9 day of March; therefore I enter the former Table finding the moneth in the head of the Table, and the day thereof in the first column, and in the common angle or meeting, I finde 4. hours, 50. minutes, the time of the Moons being South after noon; then I enter the other Table, seeking for the Start, which I finde, and against it 6. hours 55. minutes, which I adde to 4. hours 50. minutes (the time of the Moons culmination) and the totall is 11. hours 45. minutes, the time of High water at the Start the 9. of March; Note, that if the summe of the two numbers do surmount 24. hours, you must deduct 24. hours from it, and the remainder gives the time of High water.



A Table of the Declination, Right Ascension, Semidiameter, Arch, and Magnitude, of most of the principall fixed Stars, rectified for this present Year. 1652.

The Names of the Stars.	Declination.		Right Ascension.		Semidiameter Arch.		Magnitude.
	D.	M.	H.	M.	H.	M.	
The Pole-Starre.	87	19	N	0	32	sets not	2
Andromeda's girdle.	33	48	N	0	52	9 49	2
Rams horn.	17	27	N	1	34	7 33	3
Rams head.	21	44	N	1	48	8 0	3
Head of Medusa.	39	32	N	2	46	sets not	3
Bulls eye, Aldebaran.	15	48	N	4	16	7 23	3
Mirus, The Goat.	45	36	N	4	51	sets not	3
Orions left foot.	8	40	S	4	58	5 15	1
Orions left shoulder.	5	59	N	5	6	6 30	3
First in Orions girdle.	0	38	S	5	14	5 57	3
Orions right shoulder.	7	17	N	5	36	6 36	3
Sirius, the great Dog.	16	13	S	6	31	4 34	1
Procyon, the lesser Dog.	6	7	N	7	21	6 31	3
The heart of Hydra.	7	9	S	9	11	5 25	3
Cor Leonis, Lyons heart.	13	42	N	9	49	7 11	1
Lyons Neck.	21	49	N	9	50	8 1	2
Lyons Back.	22	33	N	10	54	8 6	2
Lyons Tayl.	16	34	N	11	30	7 28	1
The Virgins Spike.	9	16	S	13	8	5 12	1
Arcturus.	21	10	N	13	59	7 57	1
South Ballance.	14	30	S	14	32	5 44	2
North Ballance.	8	2	S	14	58	5 19	2
Antares, Scorpions heart.	25	34	S	16	8	3 33	1
Hercules head.	14	53	N	16	59	7 18	3
Bright * of Lyra.	38	30	N	18	25	11 40	1
Eagles heart.	7	58	N	19	33	6 40	2
Bright * of the Vulture.	8	1	N	19	34	6 41	2
Fomalhaut.	31	25	S	22	38	2 40	1
Pegasus shoulder.	13	14	N	22	48	7 9	2
Pegasus leg.	16	9	N	22	52	8 32	2

## A Prognostication.

A Table of the Right Ascension of every degree of the Ecliptick in hours and minutes, being very usefull for finding the time of the culminating of the Planets or fixed Stars.

I		II		III		IV		V		VI		VII		VIII	
N	S	N	S	N	S	N	S	N	S	N	S	N	S	N	S
10	340	155	25	355	25	422	812	54	1012	12					
20	720	159	17	359	66	843	817	3	1016	0					
30	1112	3	8	434	613	5	821	11	1019	4					
40	1441	6	59	48	06	1720	825	19	1023	3					
50	1821	210	51	412	136	1148	829	25	1027	12					
60	2222	44	44	416	266	26	833	31	1031	8					
70	2542	218	37	420	406	3030	837	36	1035	14					
80	2913	223	31	423	556	3451	841	41	1039	20					
90	3342	26	25	429	106	3911	845	45	1043	24					
100	3645	30	30	433	266	4331	849	48	1046	29					
110	4026	34	16	437	426	4751	853	51	1049	33					
120	4482	38	13	441	596	5211	857	52	1053	37					
130	4852	42	10	446	166	5630	9	153	11	5720					
140	5132	46	8	450	247	6049	9	153	11	1					
150	5514	50	7	454	527	58	9	953	11	440					
160	5857	54	7	459	117	926	913	52	118	18					
170	6240	58	7	463	307	1344	917	50	1216						
180	6623	62	8	467	497	181	921	47	1115	52					
190	7010	66	9	471	19	9722	925	44	1114	34					
200	7351	70	12	475	29	72634	929	40	1113	15					
210	7736	74	15	479	20	73050	933	35	1116	16					
220	8120	78	19	483	25	97355	937	29	1115	37					
230	8563	82	23	487	29	3073920	941	23	1114	18					
240	8952	86	27	491	33	5174334	945	16	1113	37					
250	9338	90	31	495	38	1274747	949	9	1114	19					
260	9723	94	35	499	42	347520	953	1	1114	15					
270	10108	98	39	503	46	5975612	956	52	1114	15					
280	10444	03	42	507	51	17802410	043	11	1114	15					
290	10778	07	46	511	55	38843510	433	12	1114	15					
300	11116	11	50	515	60	0884510	824	12	1114	15					

A Table of the Declination of the Sun, at every degree of the Ecliptique.

Declination				Declination				Declination			
Ar.		Ar.		Ar.		Ar.		Ar.		Ar.	
H	M	H	M	H	M	H	M	H	M	H	M
0	0	0	6	0	11	31	6	59	20	13	7
1	0	24	6	2	11	52	7	120	26	52	29
2	0	48	6	4	12	13	7	3	20	38	7
3	1	13	6	6	12	33	7	5	20	50	7
4	1	36	6	8	12	54	7	7	21	17	56
5	2	0	6	10	13	13	7	9	21	12	7
6	2	23	6	12	13	34	7	10	21	23	7
7	2	47	6	14	13	54	7	12	21	33	7
8	3	11	6	16	14	14	7	14	21	43	8
9	3	35	6	18	14	33	7	16	21	53	8
10	3	58	6	20	14	52	7	18	22	2	8
11	4	23	6	22	15	11	7	20	22	10	8
12	4	46	6	24	15	29	7	22	22	19	8
13	5	1	6	26	15	48	7	23	22	27	8
14	5	24	6	28	16	6	7	25	22	34	8
15	5	46	6	30	16	24	7	26	22	41	8
16	5	19	6	32	16	41	7	28	22	47	8
17	6	42	6	34	16	58	7	30	22	53	8
18	7	5	6	36	17	15	7	31	22	59	8
19	7	28	6	38	17	32	7	33	23	4	8
20	7	50	6	40	17	48	7	35	23	9	8
21	8	14	6	42	18	4	7	37	23	13	8
22	8	36	6	44	18	20	7	39	23	17	8
23	8	58	6	46	18	35	7	40	23	20	8
24	9	21	6	48	18	50	7	42	23	23	8
25	9	43	6	50	19	5	7	44	23	26	8
26	10	5	6	52	19	19	7	45	23	28	8
27	10	26	6	54	19	33	7	47	23	30	8
28	10	48	6	56	19	47	7	48	23	32	8
29	11	9	6	58	20	0	7	50	23	35	8
30	11	31	6	59	20	13	7	51	23	37	8

A Table for the Planets Declination, and half Arch.

Declination		Declination		Declination	
H	M	H	M	H	M
0	0	23	31	8	13
10	23	41	8	14	
20	23	58	8	15	
30	24	1	8	16	
40	24	11	8	17	
50	24	21	8	18	
1	0	24	31	8	20
10	24	41	8	21	
20	24	51	8	22	
30	25	1	8	23	
40	25	11	8	24	
50	25	21	8	25	
1	0	25	31	8	27
10	25	41	8	28	
20	25	51	8	29	
30	26	1	8	31	
40	26	11	8	32	
50	26	21	8	33	
1	0	26	31	8	35
10	26	41	8	36	
20	26	51	8	38	
30	27	1	8	39	
40	27	11	8	41	
50	27	21	8	42	
1	0	27	31	8	44
10	27	41	8	45	
20	27	51	8	46	
30	28	1	8	48	
40	28	11	8	49	
50	28	21	8	50	
1	0	28	31	8	52
1	0	29	31	8	54

## A Prognostication.

**To finde the Right Ascension of any of the Planets or fixed Stars being in (or near) the Ecliptick.**

**A**S for those Stars which are express in the Table, there is no more to be done but to finde the name of the Star in the first column, and right against it in the third you have his right Ascension, but to finde the Right Ascension of any of the other Stars or Planets,

For the time proposed, get the Longitude of the said Star or Planet (whose Right Ascension you desire to know) by the fore going Ephemeris, (or some other means) with which enter the Table, entituled, A Table of the Right Ascension of every degree of the Ecliptick in hours and minutes; finding the Sign in the head of the Table, and the degree in the first column, and in the angle of meeting you shall have the Right Ascension of the said Planet or Star in hours, minutes, and seconds, if it be in any of the Northern Signs, but if the said Planet or Star be in any of the Southern Signs, you must adde 12. hours to the foresaid number of hours, min. and seconds, so have you the Right Ascension desired.

**To finde the Southing, Rising, and Setting of any of the fixed Stars express in the Table, for any day in the Year.**

**F**or the time proposed, get the Right Ascension of the Earth by the former Rules, which deduct out of the Right Ascension of the Star (set down in the third column of the Table, adding 12. hours thereto, if need require) and the remainder shall give the time of the Stars culminating after midnight, from which alwayes subtract 12. hours if the remainder surmount 12. and the residue

in the time after noon, that the said Star cometh to the Meridian, having thus found the time of the culmination of any Star, take his semidiurnal Arch (set down in the fourth column of the Table) out of the time of his culmination, and the remainder will be the time of (the Horizons depression under the said Star, commonly called) the Stars rising: to finde the time of his setting (or the Horizons elevation above the said Star) adde this semidiurnal Arch to the time of his culminating, and you have your desire.

### To finde the hour of the Night by the Stars.

**H**AVING for the day proposed, found the time of the Stars or Planets culmination, observe by some Instrument the horary distance of the said Star from the Meridian, which horary distance deduct out of the time of the Stars culmination, if the Star be to the Eastward of the Meridian; but adde it thereto, if it be to the Westward, so have you the hour of the night desired.

### To finde the Planets Declination for any day

of the Year.

**F**OR the day proposed, finde the Longitude of the Planet, whose declination you desire by the fore-going Ephemeris, with which enter the Table entituled, A Table of the Declination of each of every degree of the Ecliptick, and if you finde the sign in the head of one Table, then seek the degree thereof in the first col. but if the sign be in the fore of the Table, then seek the degree in the last, so in the common angle of meeting, under the Title decline, you have

## A Proposition.

the Declination desired, if the Planet have no latitude, but if the Planet have any Latitude from the Ecliptick (which may be known by the foregoing Ephemeris) consider whether the declination and Latitude be both of one denomination, or no, if they be, then the sum of them, but if not, then the difference of them shall be the declination of the Planet desired.

**To finde the time of the Horizons coincidence with the Sun (commonly called the Sun rising and setting) with the length of the day and night.**

**H**AVING for the day proposed found the Longitude or place of the Earth, enter the said Table as before, finding the sign in the head or foot of the Table, and the degree thereof in the first or last column, and in the common meeting under the title Arch, you have the hour and minute of Sun rising (if the Earth be in any of the Northern Signs) which is half the length of the night, which deducted from 12 hours leaves remaining the time of Sun setting, which is half the length of the day, but if the Earth possesse any of the Southern Signs, then the former number found in the Table shall be the time of Sun setting, which is half the length of the day, by which you may finde the time of his rising, which is half the length of the night, by deducting it from 12 hours, then by doubling these numbers you have the whole length of the day and night.

**To finde the Culminating, Rising and Setting of any of the Planets.**

**F**OR the time proposed, get the Right Ascension both of the Earth and also of the Planet whose Culmination you



# Sliter. 1632.

you desire, then deduct the Barths Right Ascension out of the Right Ascension of the other Planet (adding 24 hours thereto, if subtraction cannot otherwise be made) and the remainder sheweth the time of the Planets culmination, as is shewed in the fixed Stars, then get the declination of the said Planet (by the former Rules) with which enter the former Table, entituled, A Table of the declination, &c. finding the declination in any of the three grand columns, under the Title decline, and in the same grand column toward the right hand under the Title 1 Arch, you have the Planets semidiurnal Arch, or half the time that it continues above the Horizon, if the Planets declination be Northerly, but if the declination be South, then the foresaid half Arch shall be the planets seminocturnal Arch, which deduct out of 12 hours, and the remainder shall be the semidiurnal Arch, but if the Planets declination exceed 23 degrees 31 minutes: then seek the declination in the little Table, entituled, A Table for the Planets declination and half Arch, and right against it under the title 1 Arch, you shall have the Planets semidiurnal or seminocturnal Arch as afore: having thus found the Planets semidiurnal Arch, deduct it out of the time of the Planets culmination (adding 12 hours if need require) and the remainder shall be the time of the Planets rising; and adding the semidiurnal Arch to the time of Culmination, you have the time of the Planets setting, deducting 12 hours from it, if the total surmount 24.

B 2

Of

## A Prognostication,

### Of the Eclipses happening this Year,

**T**His primary Planet the Earth which we inhabit, and her secondary Planet the Moon, which about us performs her monthly revolution, shall twice this Year by the interposition of their bodies deprive each other of the light of the Sun, in some part, for some space of time, for the Planets being opacous bodies, and having no native light of their own, do obscure each other by their interposing between each other, and the Sun, who is the fountain of Light, that illuminates the whole planetary System.

The first of these is of the Moon, happening in our Meridian of Rochester, the 15 of March 3 h<sup>rs</sup> 49 m<sup>ins</sup> 43 s<sup>cs</sup> A.M. or 49 min. 52 seconds past 3 in the morning, according to *Harmontian Celeste*, the beginning whereof will be 7 minutes 18 seconds after 2 in the morning, the middle or apparent opposition 29 min. 52 seconds past 3, the greatest obscuration 53 min. 43 seconds past 3, and the end 34 min. 26 seconds past 4, so that the total duration will be 3 hours, 29 minutes and 1 second, the time Eclipsed will be 10. 7 minutes and 38 seconds, so that the Earth will be deprived of above three quarters of her light, the part of her body eclipsed will be that near the South, it will appear of a pale black colour at the beginning of the Eclipse, but toward the end black with some redness: the place of the Earth from the Sun, and of the Moon from the Earth being  $\approx$  5. degrees, 15. minutes, 17 seconds.

The second is of the Earth, and happens in our Meridian of Rochester, the 29 of March 3 min. 12 seconds past 10 before noon, the Earth being then from the Sunne in 21 deg. 15 33 and the Moon from the Earth in the opposite point, the obscured parts of the Earth are these our Northern Climates, lying then under the Cone of the Moon

Moons Shadow, the interposing between us and the Sun, thereby depriving us of the Suns light; and her self and Inhabitants (if she have any) of the light which otherwise she and they would receive from the Earth; this Eclipse will be in a manner totall to us in the Meridian and Latitude of Rochester, by the foresaid Tables, the beginning whereof will be 54 min. 43 seconds past 8 in the morning, the greatest obscuration 3 min. 51 past 10. the middle or apparent 3 min. 33 past 10. and the end 3 min. 48 seconds past 11. the digits or parts eclipsed to us will be 11, 31, 45, but the conjunction will be central, and the Eclipse total to other parts of England: and indeed by *Orons Praedice* it should be so to us, as also by *Tab. Linsberg* from whom I have taken the points to calculate the Eclipse, the Light that we shall behold in the Suns body according to the foresaid Tables, will be on the South side or lower part thereof, but according to the two latter we shall perceive some glimmering of light on the North or upper part of his body, as for the colour of the Eclipse we shall behold it to be of a grey reddish colour, somewhat inclining to yellow: the totall duration of this Eclipse at Rochester, according to *Harmonicon Caeleste*, will be 2 hours 18 minutes and 7 seconds, but according to *Linsberg Tab.* it will continue 2 hours 37 min. and 34 seconds.

## A Prognostication.

1604



South

March 20 at 2 min. 55 seconds past 10 of the Clock in the forenoon, the Sun will be thus eclipsed at Rochester.

The third Eclipse is of the Moon, and happens to us at Rochester the 7 of September, 23 min. 6. seconds past 6, at night, the Earth being in respect of the Sun, and the Moon in respect of the Earth in  $\times 25$  deg  $15' 5''$ , the beginning whereof will be 33 min. 1 second past 4 in the morning, the middle or apparent opposition 22. min. 6. sec. past 6, the greatest obscuration 28 min. 30 seconds past 6, and the end 33 min. 12 sec. past 7. so that the torall duration will be 3 hours, 0 min. 10 sec. the digits eclipsed, 10, 19<sup>l</sup>. 41 but according to *Nichol. Ephem.* the parts eclipsed both of this, and also of the former Lunar Eclipse will be but 4 digits 57<sup>l</sup>, so that according to either the Earth will be deprived of more then three quarters of her light for some space of time: the darknesse which we shall behold will

## Slitar. 1632.

be on the upper or North part of her body: the appearing of a pitchy black colour mixed with a little palenesse toward the beginning, but toward the latter end more black mixed with rednesse; the Moon will be risen above our Hemisphere till she be near the middle of the Eclipse; these three Eclipses will be visible to us in England, but that which follows will not.

The fourth and last Eclipse which happens this Year will be of the Earth on Wednesday the 28 of September, 16 min. 35 sec. past 3. in the afternoon, at which time the place of the Earth from the Sun will be  $79^{\circ}$  deg: 56 min. 33 seconds, and the Moon from the Earth in the opposite point of the Signifier: this Eclipse by reason of the Moons Meridionall Latitude, will not be conspicuous to us in England, or any of the Northern Climates, but the parts of the Earth dashed by the Moons interposition will be *Magalanica*, and the *Pacifick* sea, for over these parts shall passe the Center of the Conicall shadow of the Moon, the shadow spreading it self many miles on the Earth, so that the Lunar inhabitants (if any such there be as some do conceive) shall behold a round dark spot to passe over the Earth in these parts; And to the Eclipsed Regions shall the Suns light for a time be almost totally obscured, neither can the Moon for some space of time receive the benefit of any light from them, more then what she her self doth communicate to them.

## Of the Earth's Entrance into the four Cardinall Signs limiting the four Quarters of the Year.

**T**He Spring being accounted the first Quarter of the Year commenceth at the entrance of the Earth into the *Aquinoctial* Sign *Libra*, making then the daies and nights of equall length, which happens to us in the Meridian of *Recheſter*, on Tuesday the 9 of March 14 min. past 7 at night.

B 4

Summer

## A Prognostication.

Summer begins at the Earth's ingress into Cancer, making then round the Northern inhabitants the longest and shortest nights; but the contrary to the Southern, which will be this Year on Thursday the 10 of June 1 min. past 10 at night.

Autumn takes beginning at the Earth's entrance into Aries, which will be on Sunday the 12 of September 1 min. past one of the Clock in the afternoon, at that time the days and nights are again of equal length all over the world.

Winter begins at what time our primary Planet Earth hath wheel'd her self into the first Scaple of Capricorn, making the shortest days and longest nights to us the Northern Inhabitants, but the contrary to the Southern, which will be on Saturday the 10 of December 1 min. past one in the morning.

For the Earth's ingress into Cancer, which will be this Year on Thursday the 10 of June 1 min. past 10 at night, the days will be longest and the nights shortest; but the contrary to the Southern, which will be this Year on Saturday the 10 of December 1 min. past one in the morning.

For the Earth's entrance into Aries, which will be on Sunday the 12 of September 1 min. past one of the Clock in the afternoon, at that time the days and nights are again of equal length all over the world.

For the Earth's ingress into Capricorn, which will be this Year on Saturday the 10 of December 1 min. past one in the morning, the days will be shortest and the nights longest; but the contrary to the Northern, which will be this Year on Thursday the 10 of June 1 min. past 10 at night.

For the Earth's entrance into Taurus, which will be on Monday the 14 of March 1 min. past 11 at night, the days will be longest and the nights shortest; but the contrary to the Southern, which will be this Year on Saturday the 10 of December 1 min. past one in the morning.